

Appendix A

Christina River Basin EFDC Water Quality Model Calibration

Model-Data Time-Series Comparison Graphics

Time-series graphics are presented in this appendix for the 27 monitoring locations shown in Figure A-0 and listed in Table A-1. Each figure is composed of four graphics, one graph for each year of the 4-year simulation. Eight figures are presented for each monitoring location, one figure for each of the following water quality parameters: temperature, dissolved oxygen, total nitrogen, total phosphorus, total organic carbon, dissolved organic carbon, nitrate nitrogen, and ammonia nitrogen.

Table A-1. Monitoring stations used for time-series model-data comparison graphics

Station	EFDC grid cell (I,J)	Stream and Location
104011	54,20	Brandywine Creek at Brandywine Park
104021	54,23	Brandywine Creek at Road 279
104051	54,32	Brandywine Creek at Smith Bridge
WQN0105	54,36	Brandywine Creek
WQN0150	43,42	Red Clay Creek
103041	43,38	Red Clay Creek at Ashland, DE
103061	48,52	Burroughs Run at Rt. 241
103031	43,30	Red Clay Creek at Woodale, DE
103011	43,24	Red Clay Creek at Stanton, DE
WQN0149	19,18	White Clay Creek
105031	21,18	White Clay Creek at Road 329 near Thompson
105011	41,18	White Clay Creek at Rt. 7 in Stanton
105131	31,34	Muddy Run at Road 303
105101	29,37	Pike Creek at Road 322
105071	31,40	Mill Creek at Road 282
106191	14,13	Christina River above Newark at Rt. 273
106141	22,13	Christina River at Road 26
106031	32,13	Christina River at Smalleys Pond
106021	47,13	Christina River at Rt. 141 in Newport
106011	53,13	Christina River at US Rt. 13
106291	55,13	Christina River at RR Bridge near Port of Wilmington
106281	43,55	Little Mill Creek at Atlantic Avenue
BCWB05	27,79	Brandywine Creek West Branch at Modena, PA
BCWB04	21,79	Brandywine Creek West Branch at Coatesville, PA
BCEB02	54,55	Brandywine Creek East Branch below Downingtown, PA
RCWB02	29,43	Red Clay Creek West Branch near Kennett Square, PA
RCWB01	31,43	Red Clay Creek West Branch near Kennett Square, PA

